

Installation Manual: Watering System Floor Application Featuring Nuvo™ Product Line

Issued: August 2023

Superior performance, exceptional durability and easy management.







ZIGGITY SYSTEMS, INC. STANDARD LIMITED WARRANTY

Ziggity Systems, Inc. ("Ziggity") warrants to the original retail purchaser ("Purchaser") of any Ziggity product ("Product"), sold by an authorized Ziggity distributor, that for one (1) year from the date of original retail purchase, the Product will be free from defects in materials and workmanship that are material in nature. The sole remedy available to Purchaser in the event of such a defect will be the repair or replacement (at Ziggity's sole option) of the materially defective Product, excluding labor. Purchaser will be responsible for the expense of shipping the defective Product to Ziggity and, upon Ziggity's approval of the warranty claim, Ziggity will be responsible for the expense of shipping the repaired or replaced Product to Purchaser. Any Product or Product replacement parts provided by Ziggity under this warranty are only warranted for the remainder of the warranty period for the original Product. Any Product or Product replacement part replaced by Ziggity under this warranty becomes the property of Ziggity. For warranty service, please contact an authorized Ziggity distributor. Alternatively, warranty requests may be sent directly to Ziggity at 101 Industrial Parkway East, Middlebury IN, 46540, USA.

This limited warranty excludes liability for defects in or damage to the Product (both internal and external) caused, directly or indirectly, by misuse, neglect, negligence, alteration, accident, excessive mineral or chemical contact, corrosive chemical use, minerals or sediment in the water, poor quality water, acts of nature or failure to: (A) follow Ziggity's guidelines and recommendations for the Product, (B) follow installation and operating instructions for the Product, (C) use potable and filtered water in and with the Product, or (D) properly maintain the Product. It also excludes used Products or Products acquired from sellers who are not authorized Ziggity distributors. Furthermore, this warranty does not extend to any item that is manufactured by others, including without limitation, items such as: galvanized support pipe, water filters, water meters, sight gauges and proportioners. These items are warranted separately by the original manufacturer, if at all.

Ziggity makes no other representations or warranties of any kind except as expressly stated in this warranty. Implied warranties, if any, arising by state law, including any implied warranties of merchantability or of fitness for a particular purpose, are limited in duration and scope to the terms of this limited warranty. Ziggity disclaims any and all implied warranties, including the warranty of merchantability and the warranty of fitness for a particular purpose, on components and items not covered by this limited warranty. To the fullest extent permitted by applicable law, Ziggity shall not be liable to Purchaser for any consequential, incidental, exemplary, punitive, special, or indirect damages, and Ziggity shall not be liable for any damages that are based on negligence, breach of warranty, or strict liability. Ziggity's liability under this warranty shall in no event exceed the purchase price paid by Purchaser for the defective Product. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply fully to you.

Ziggity may from time to time, through its issuance of formal Information Update documents, provide for supplemental warranty coverage in addition to this standard limited warranty for certain products, or may provide for deviations or exclusions from this standard warranty for certain products. If any such supplemental, deviation, or exclusion Information Updates apply to your Product, you will be provided with a copy of such Information Updates at the time of your original retail purchase and the standard limited warranty provided for above will be deemed modified accordingly.

No person, including any dealer, distributor, agent, or other representative of Ziggity, is authorized to make any representation or warranty concerning the Product other than as specifically contained in this standard limited warranty and any Information Update from Ziggity providing for any supplemental warranty coverage or deviation or exclusion from warranty coverage. Ziggity reserves the right to change Product models, make changes to the Product and Product specifications, at any time and without notice or obligation to Purchaser.

[CONTINUES ON NEXT PAGE]

ZIGGITY SYSTEMS, INC. EXTENDED DRINKER WARRANTY

In addition to its standard limited warranty, Ziggity provides an extended warranty for certain Drinkers manufactured by Ziggity. All other provisions of the standard limited warranty apply to the Extended Drinker Warranty. If any covered Drinker is determined by Ziggity to be defective in materials or workmanship after the expiration of the one (1) year standard warranty period and prior to ten (10) years after the date of the original retail purchase, Ziggity will provide a replacement Drinker or Drinker components, as applicable, to the original retail purchaser at the following discount off of published list/brutto prices:

| End User Purchase Date | End User Discount |
|---------------------------|----------------------|
| 0 - 36 months | 100% (No charge) |
| 37 - 60 months | 65% |
| 61 - 120 months | 40% |

WARNING - AVOID USE WITH OR EXPOSURE TO CORROSIVE PRODUCTS

Do not allow Ziggity products to come into contact with petroleum, phenol or aldehyde based products or any other corrosive product in general. Contact with such corrosive products is likely to result in damage to or failure of the Ziggity product. Additionally, aggressive chlorination and/or acidification programs (greater than1 ppm and/or pH less than 6) will shorten the life of Ziggity products. Failure to follow this warning will void any otherwise applicable warranty coverage for the Ziggity product when the product is chemically damaged.

WARNING - GALVANIZED SUPPORT PIPE SPECIFICATIONS

Please note that using a support pipe that does not conform to the specifications noted in Ziggity's official written publications, including but not limited to, Information Update 2065 and our Installation Manuals, will compromise system performance and make null and void Ziggity's warranty provisions.

PLEASE NOTE

Extended Drinker Warranty does not apply to Ziggity drinkers with the following metering pin colors: Blue, Gray, Gold, Red, and Black.

Extended Drinker Warranty does not apply to T-Max Drinkers.

SPECIFICATIONS / INSTALLATION INSTRUCTIONS / NOTES / WARNINGS ETC.

GALVANIZED SUPPORT PIPE SPECIFICATIONS:

- Outside Diameter (O.D.): 1.050 in (± 0.005 in) or 26.90 mm (± 0.30mm)
- Wall Thickness: 19 Gauge or 1.00 mm (minimum acceptable wall: 0.037 in or 0.94 mm)
- ASTM A513 or equivalent standard
- Swage element coaxial or concentric to the remainder of the pipe
- Bow tolerance: 0.031 in or 0.80 mm per 3 feet or 1 meter section
- G60 Coating or better
- Ends deburred and painted with a polyester-based polymer containing zinc oxide

SLOPE FLOOR APPLICATIONS: There are two resources available for proper set-up and installation of slope neutralizers in slope poultry houses "Installation Manual: Slope Neutralizer Floor Applications" and a video entitled "How to install Ziggity

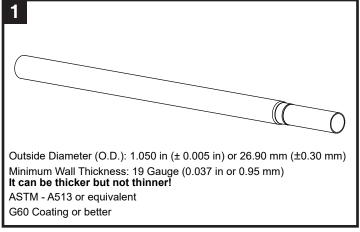
| Slope Neutralizer". Both can be found under the Support tab (Installation Manuals and Installation Videos) on the Ziggity. com website. |
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| SELF-TAPPING SCREWS: For ease of installation, use an 18V or stronger impact driver |
| WARNINGS: All Ziggity water bearing pipes must be installed in a manner to accommodate temperature induced pipe expansion and contraction. Failure to do so will cause pipes to snake, break, or gap resulting in water floods. These potential problems can be avoided by following the procedures as spelled out in Ziggity's Floor Installation Manuals. |
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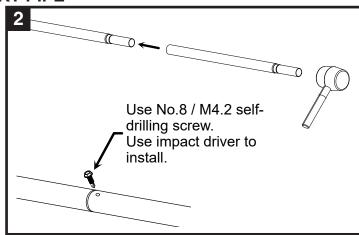
The Poultry Watering Specialists

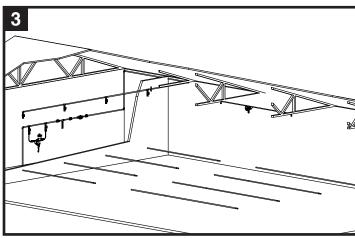


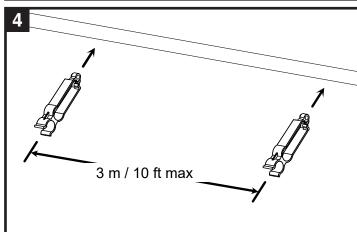
CONTENTSWATERING SYSTEM FLOOR APPLICATION INSTALLATION

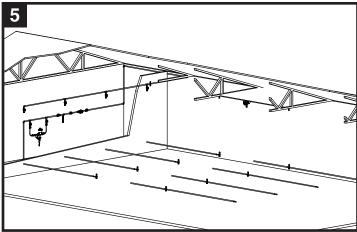
SUPPORT PIPE

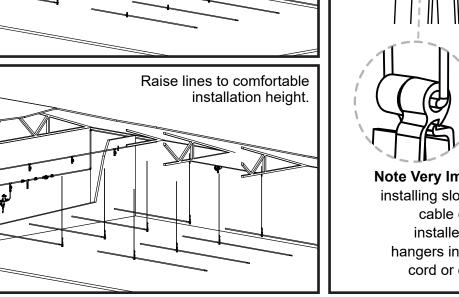


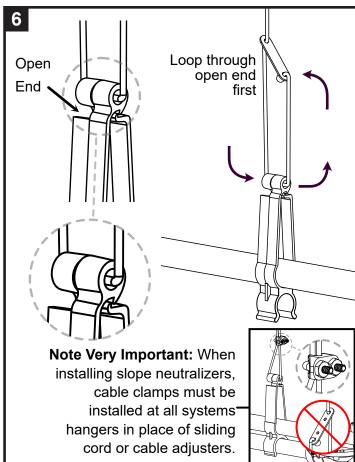




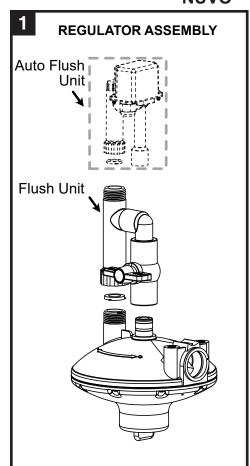


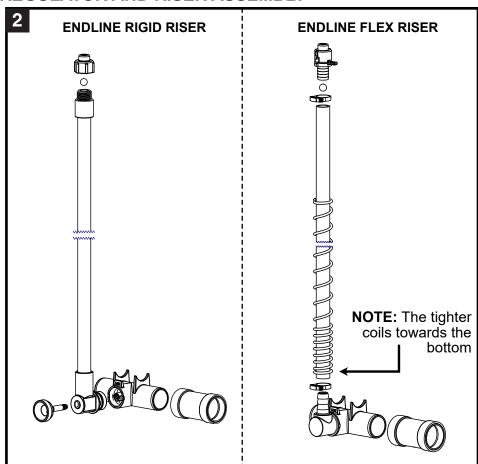


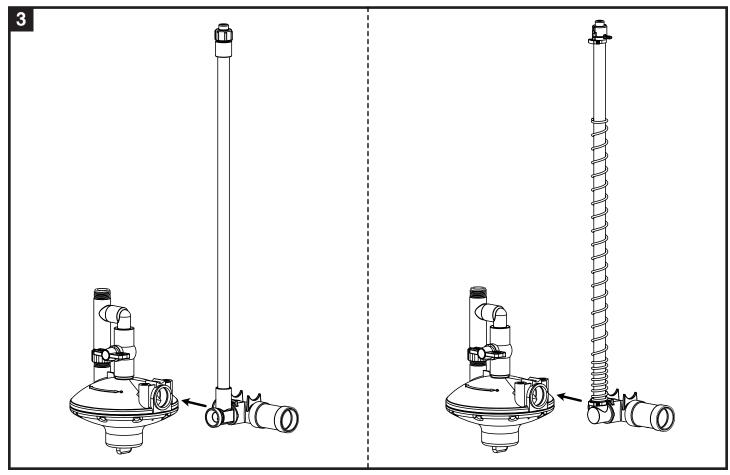




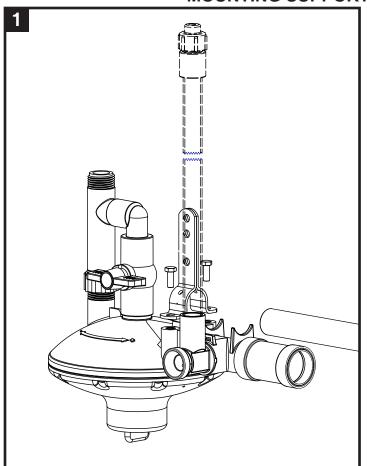
NUVO™ REGULATOR AND RISER ASSEMBLY

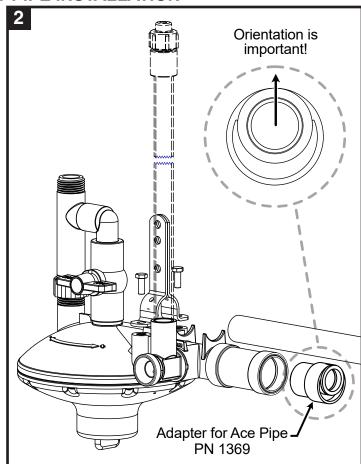


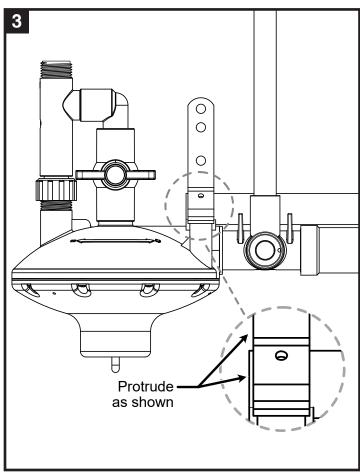


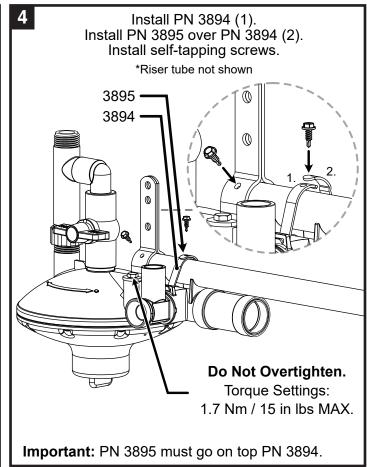


MOUNTING SUPPORT PIPE INSTALLATION

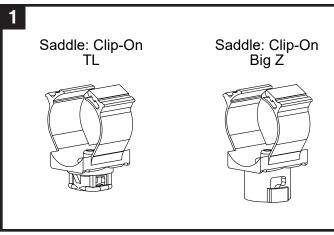


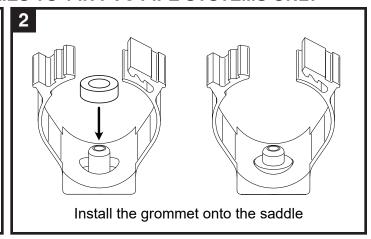


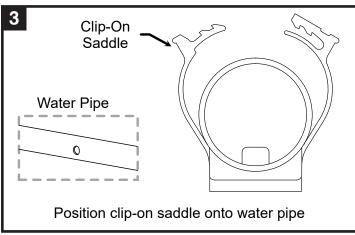


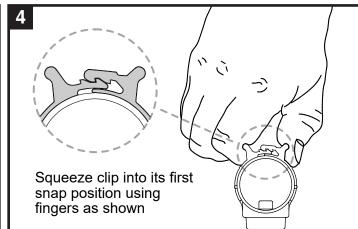


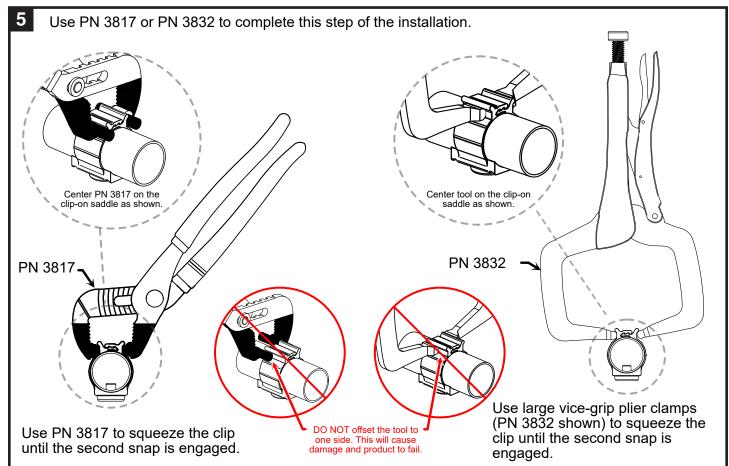
CLIP-ON SADDLE ASSEMBLY - APPLIES TO 1 IN PVC PIPE SYSTEMS ONLY



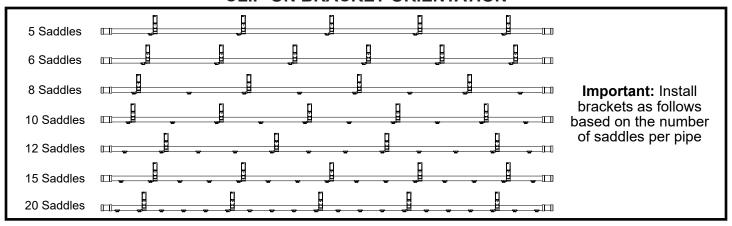


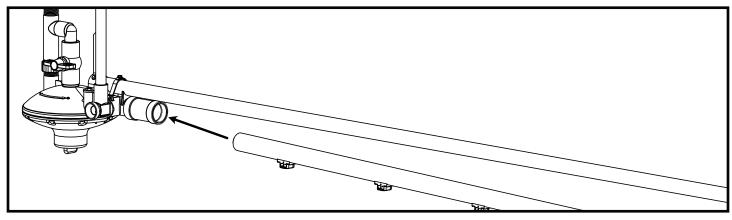


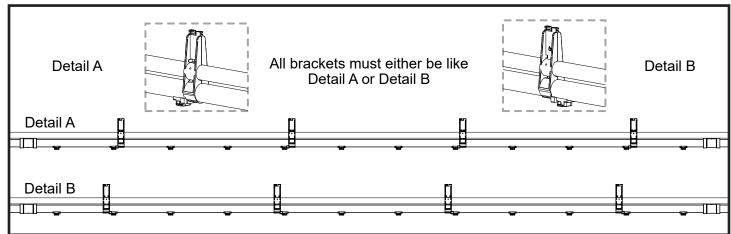




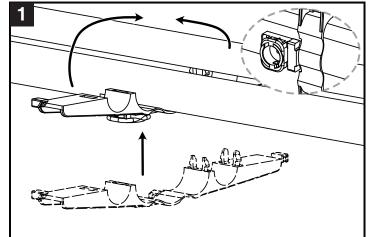
CLIP-ON BRACKET ORIENTATION

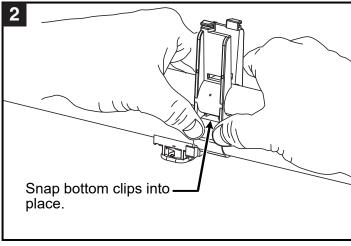




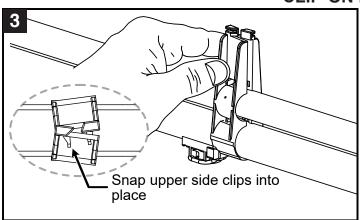


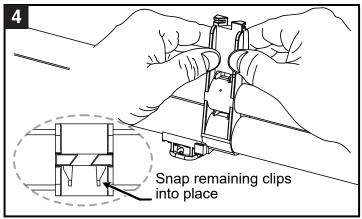
CLIP-ON BRACKET



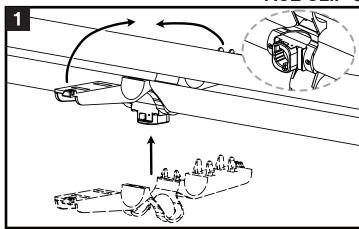


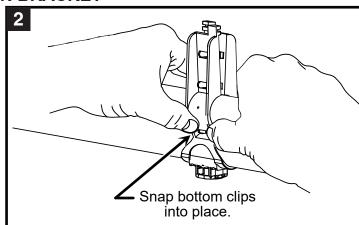
CLIP-ON BRACKET

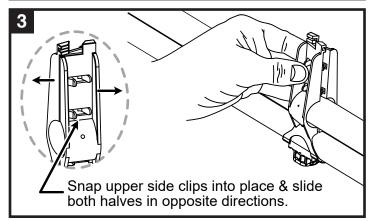


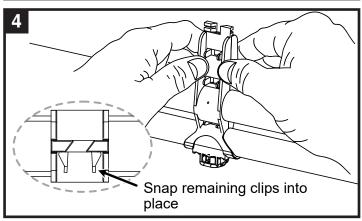


ACE CLIP-ON BRACKET

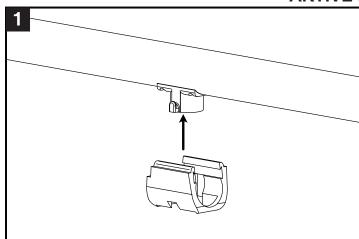


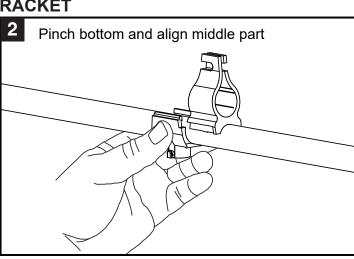




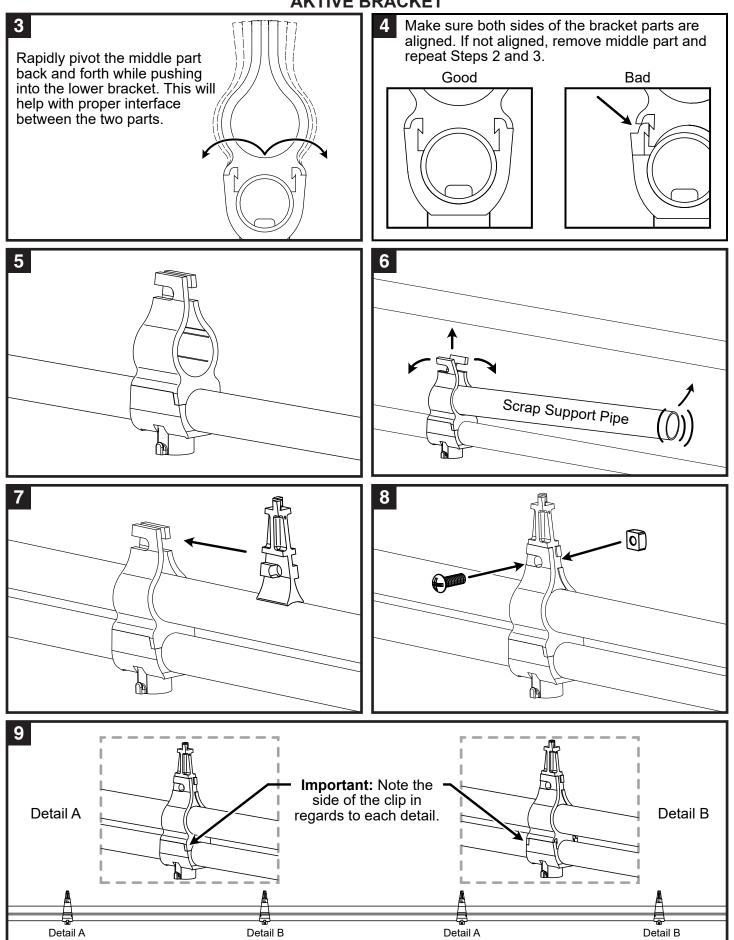


AKTIVE BRACKET



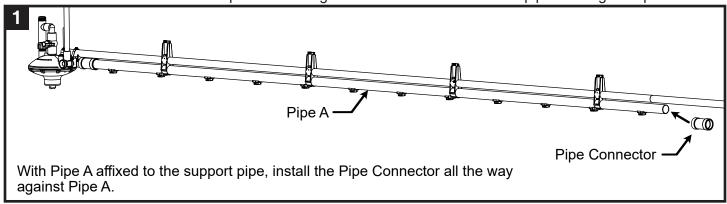


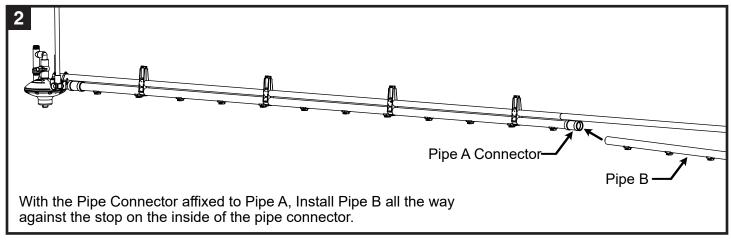
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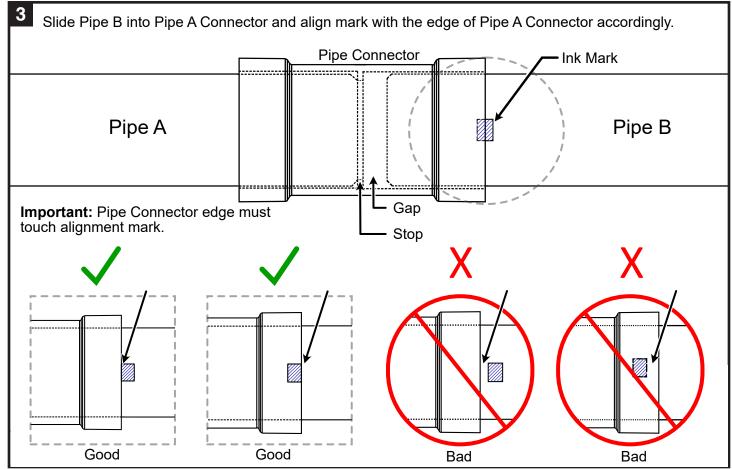


PIPE GAPPING WITH INK MARK ON END OF PIPE

WARNING: All Ziggity pipes must be installed in the manner shown in order to accommodate pipe expansion and contractions as a result of temperature changes. Failure to do so will cause pipe snaking or separation.

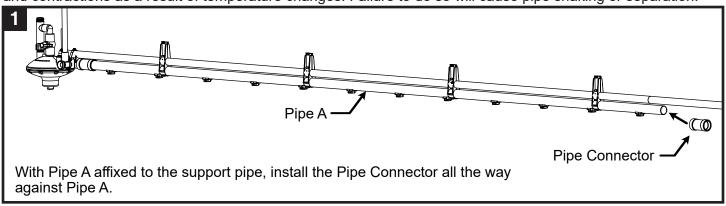


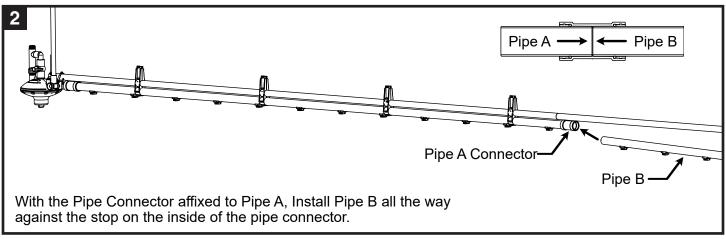


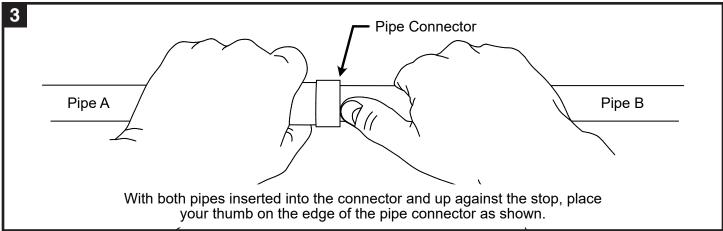


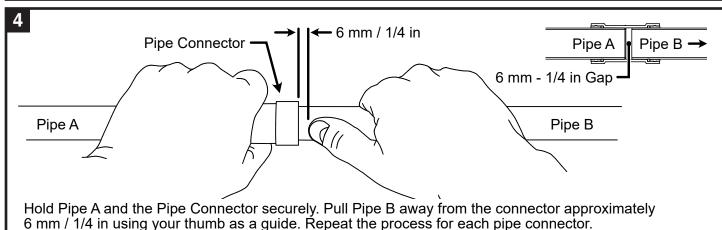
PIPE GAPPING WITHOUT INK MARK ON PIPE

WARNING: All Ziggity pipes must be installed in the manner shown in order to accommodate pipe expansion and contractions as a result of temperature changes. Failure to do so will cause pipe snaking or separation.

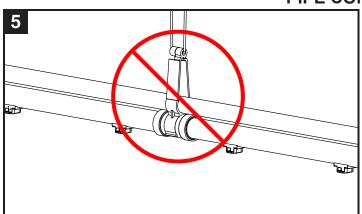


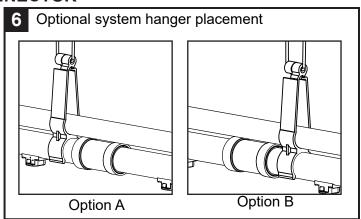




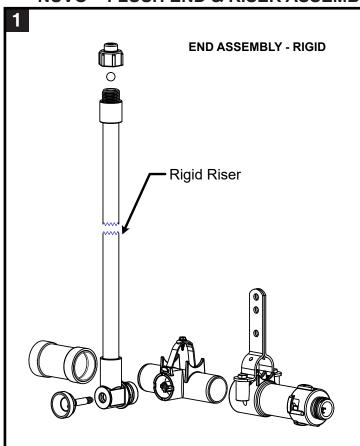


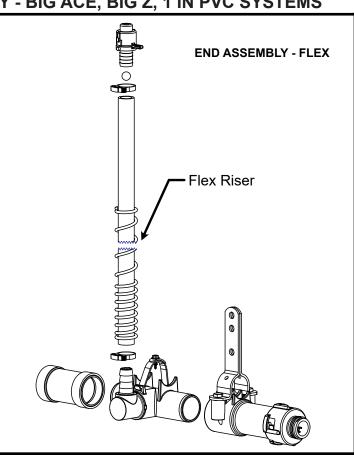
PIPE CONNECTOR

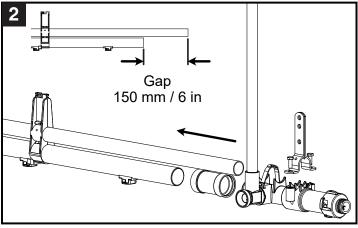


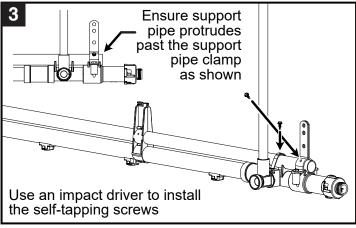


NUVO™ FLUSH END & RISER ASSEMBLY - BIG ACE, BIG Z, 1 IN PVC SYSTEMS



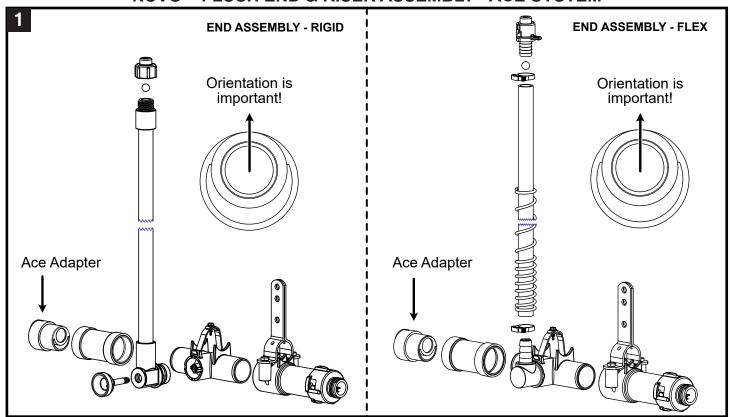


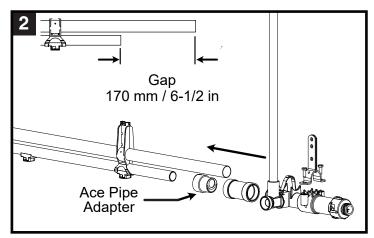


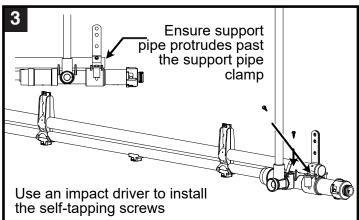


Note: Illustrations show Rigid Riser Assemblies. Also applies to Flex Riser Assemblies.

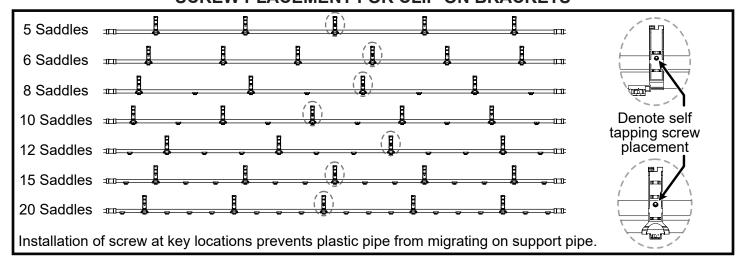
NUVO™ FLUSH END & RISER ASSEMBLY - ACE SYSTEM



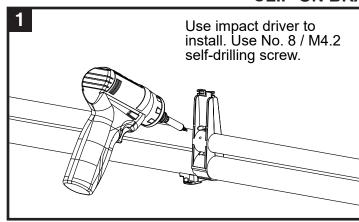


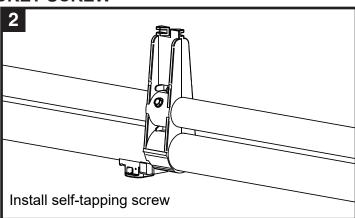


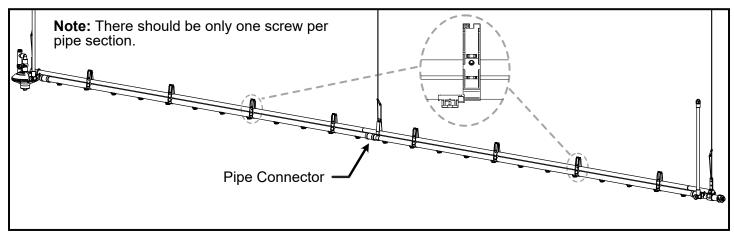
SCREW PLACEMENT FOR CLIP-ON BRACKETS



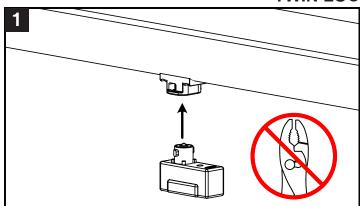
CLIP-ON BRACKET SCREW

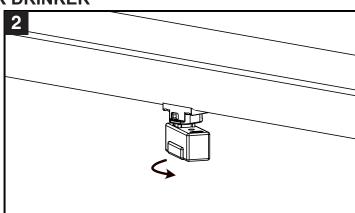




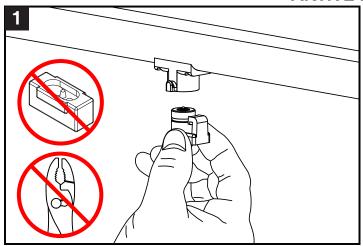


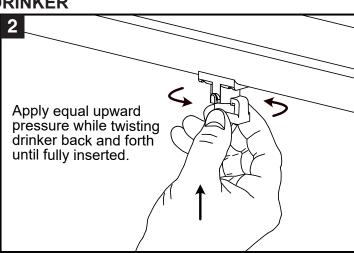
TWIN LOCK DRINKER



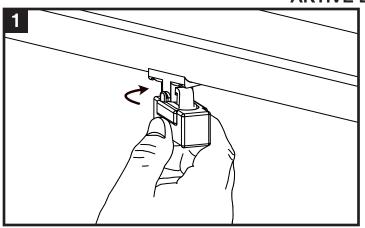


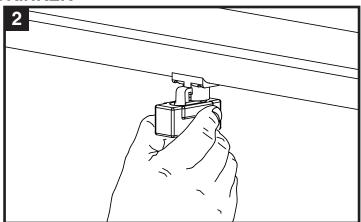
AKTIVE DRINKER



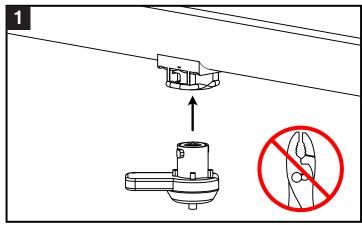


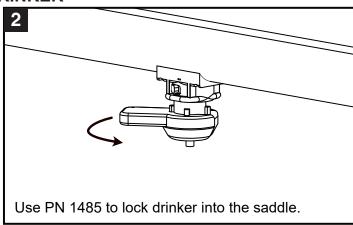
AKTIVE DRINKER



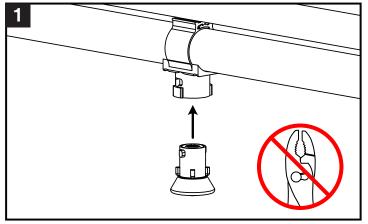


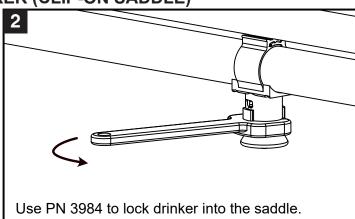
BIG Z DRINKER



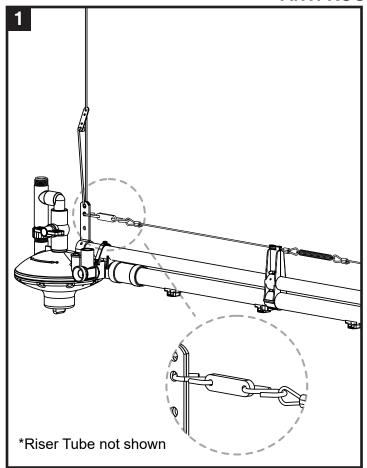


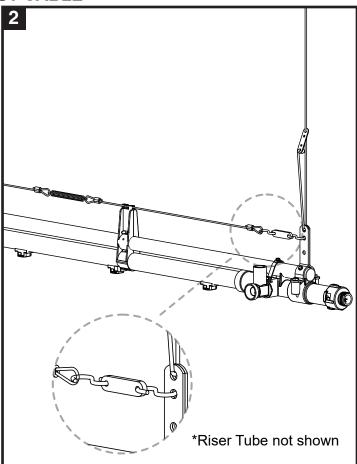
BIG Z SHIELDED DRINKER (CLIP-ON SADDLE)

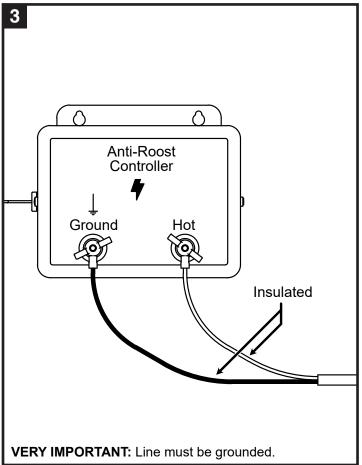


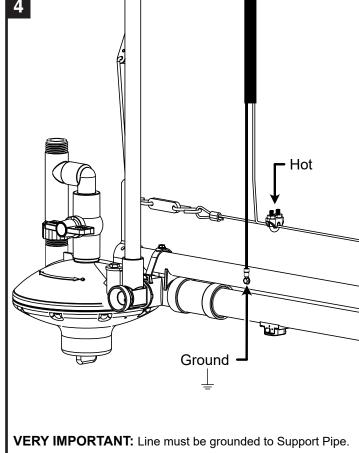


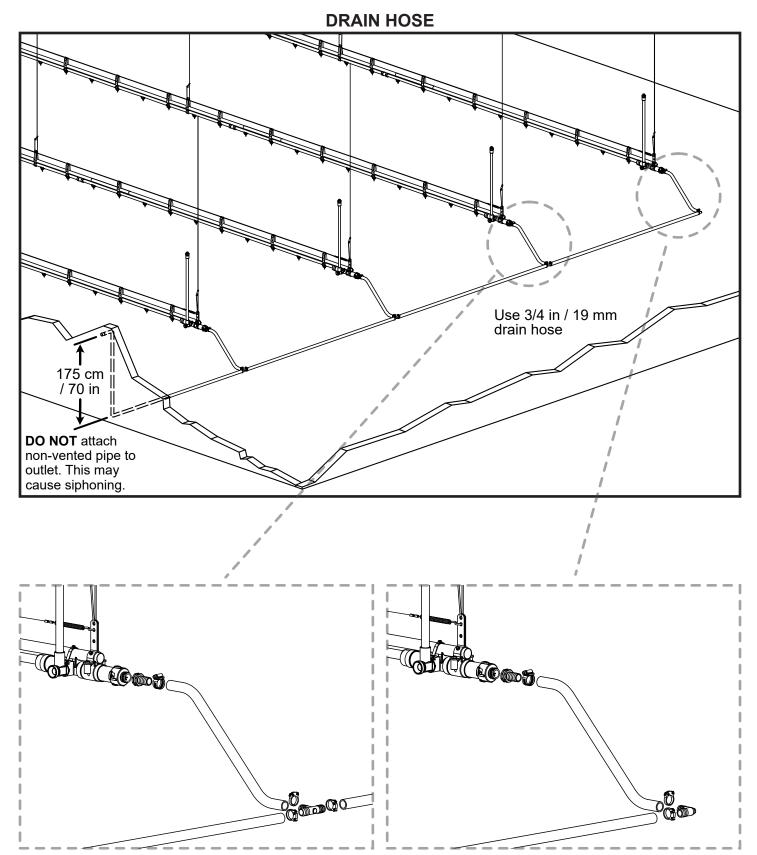
ANTI-ROOST CABLE





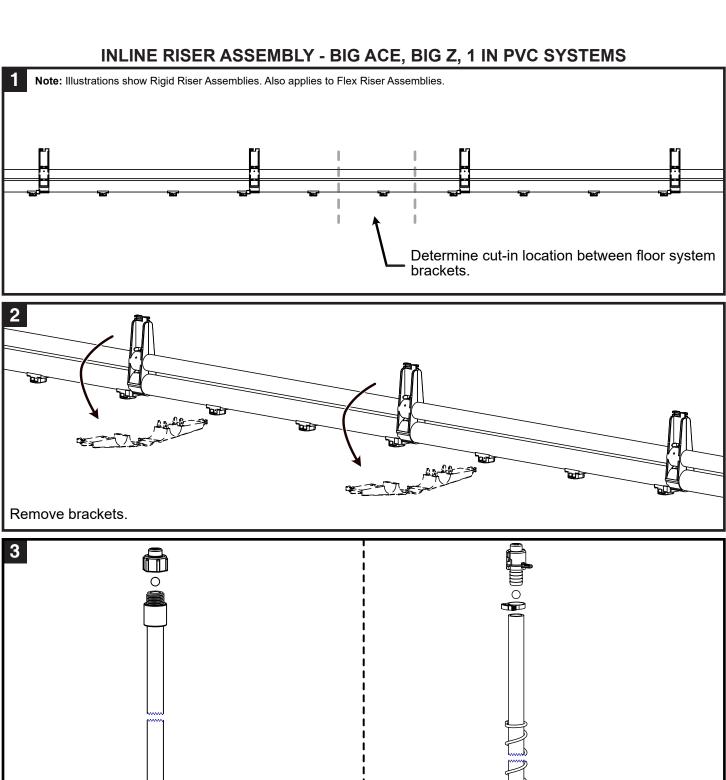


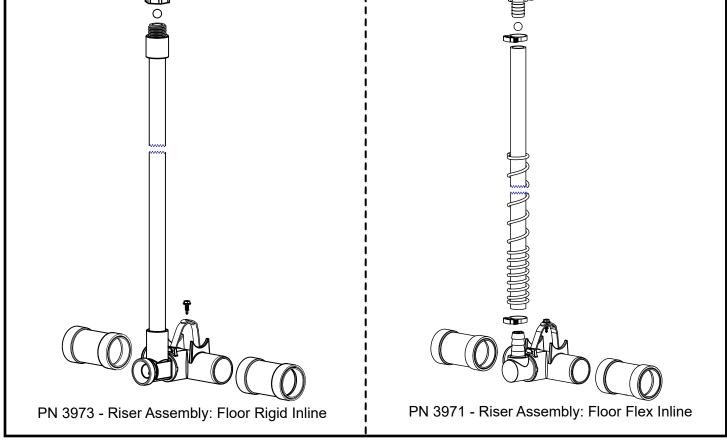




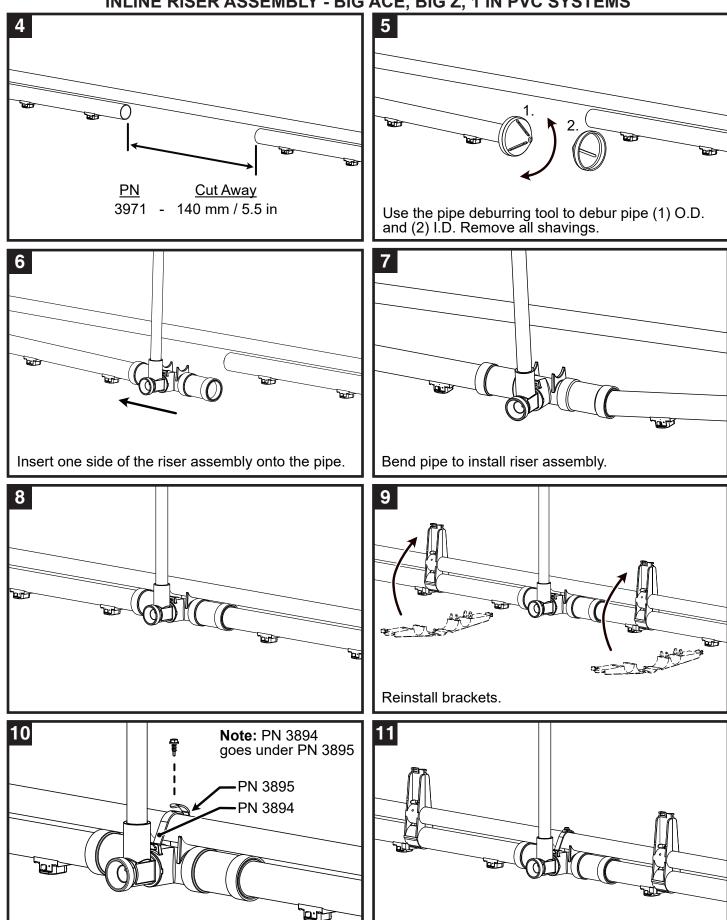
Note: Illustrations show Rigid Riser Assemblies. Also applies to Flex Riser Assemblies.





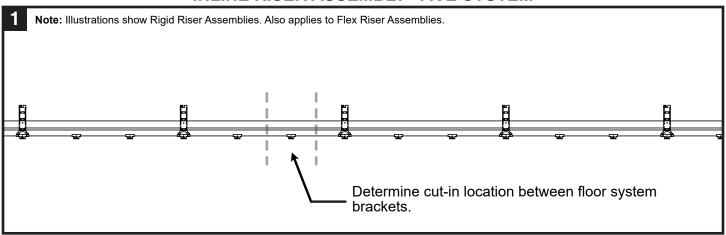


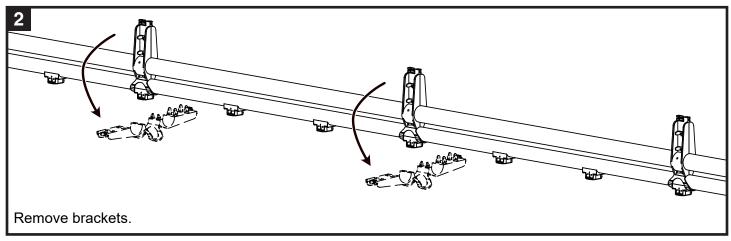
INLINE RISER ASSEMBLY - BIG ACE, BIG Z, 1 IN PVC SYSTEMS

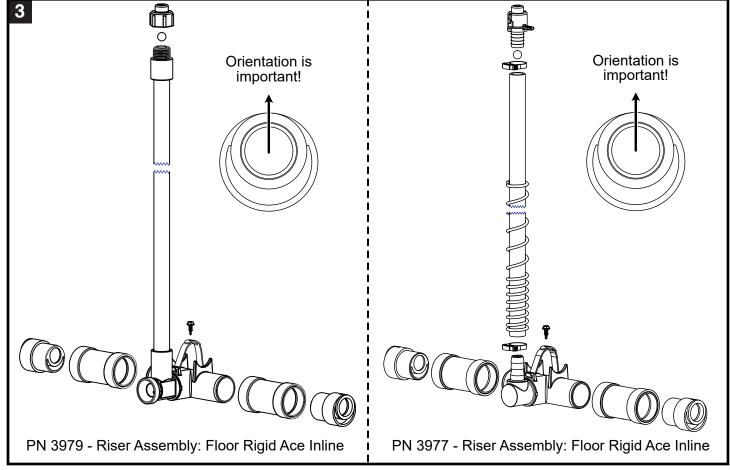


Use an impact driver to install self-tapping screw.

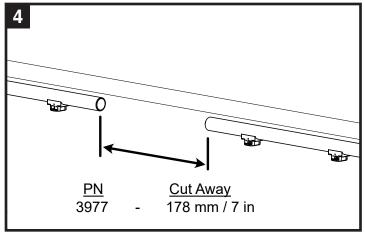
INLINE RISER ASSEMBLY - ACE SYSTEM

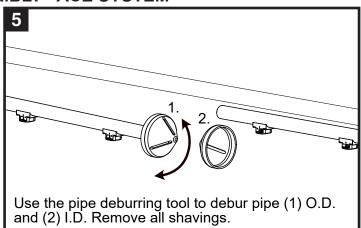


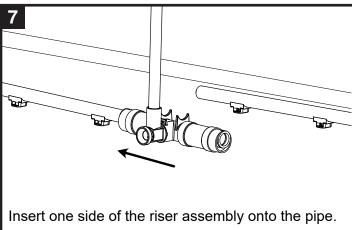


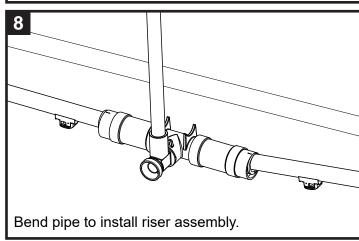


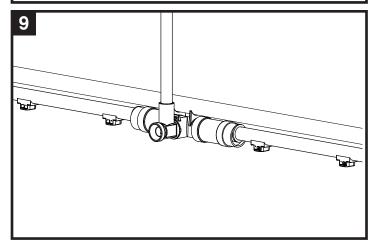
INLINE RISER ASSEMBLY - ACE SYSTEM

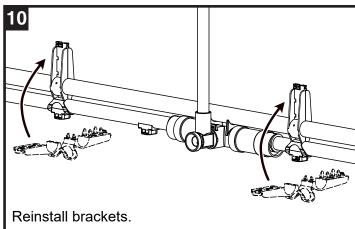


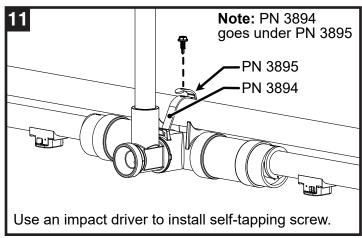


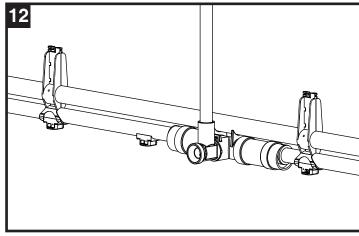




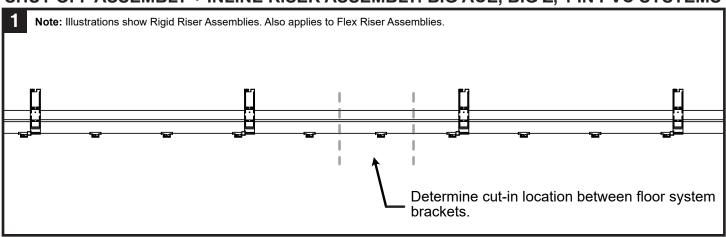


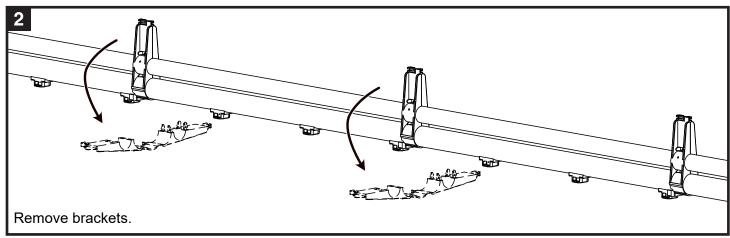


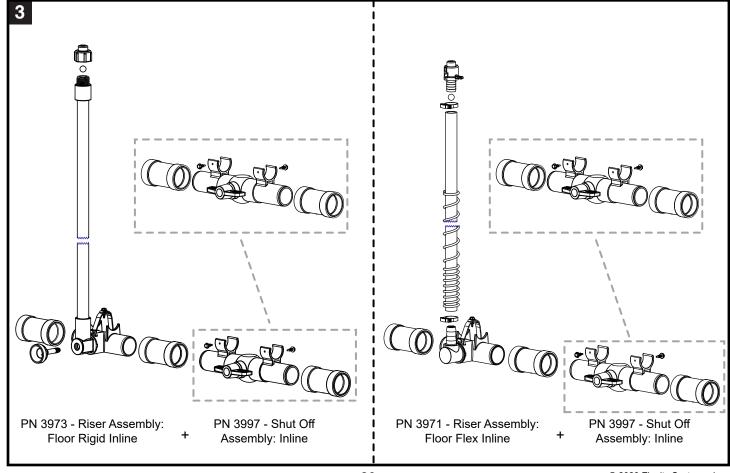




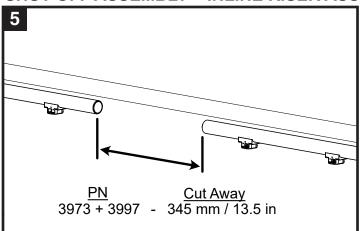
SHUT OFF ASSEMBLY + INLINE RISER ASSEMBLY: BIG ACE, BIG Z, 1 IN PVC SYSTEMS

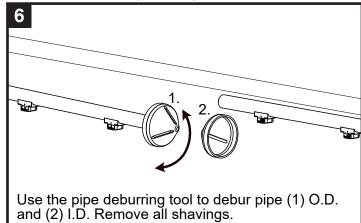


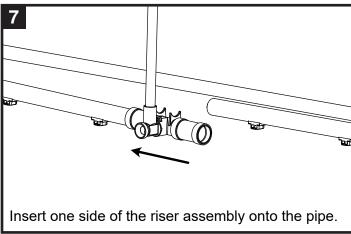


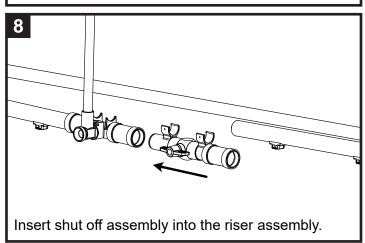


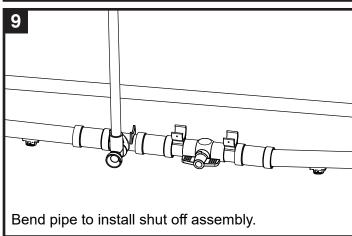
SHUT-OFF ASSEMBLY + INLINE RISER ASSEMBLY: BIG ACE, BIG Z, 1 IN PVC SYSTEMS

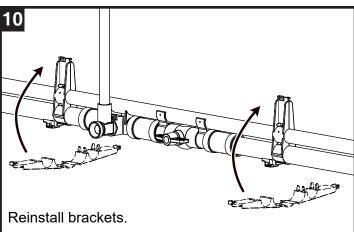


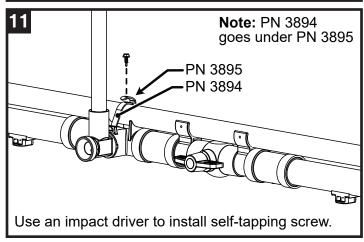


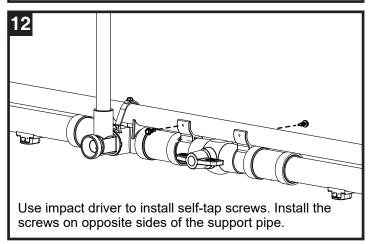




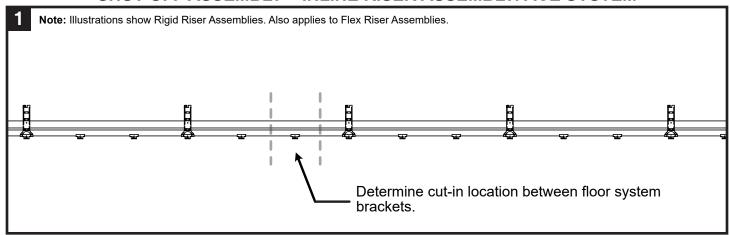


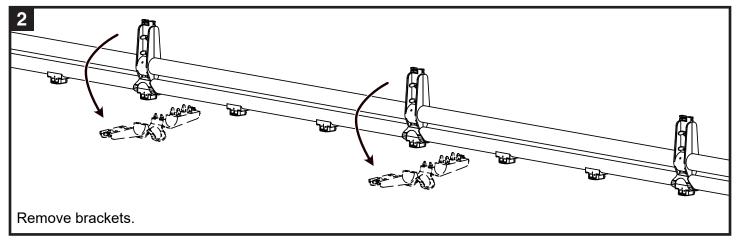


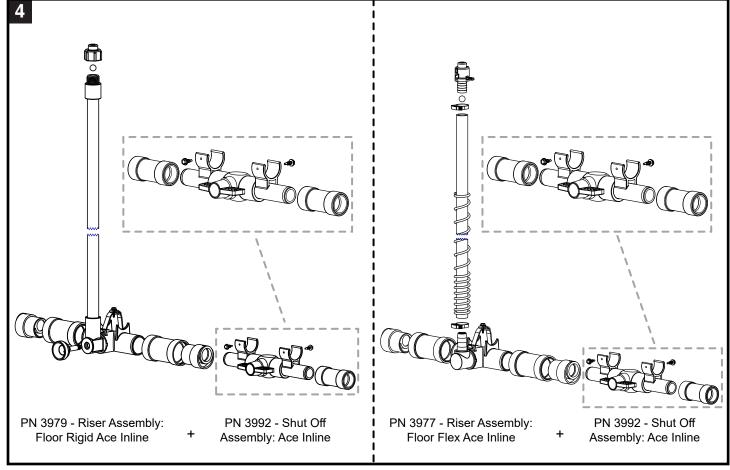




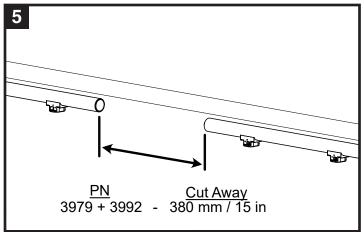
SHUT OFF ASSEMBLY + INLINE RISER ASSEMBLY: ACE SYSTEM

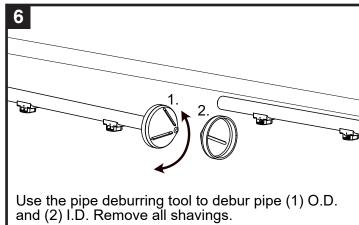


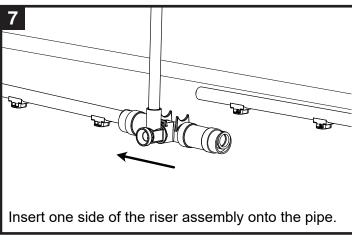


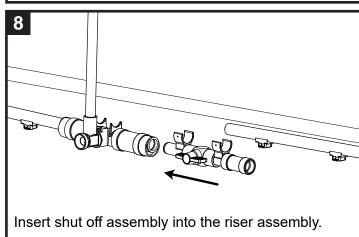


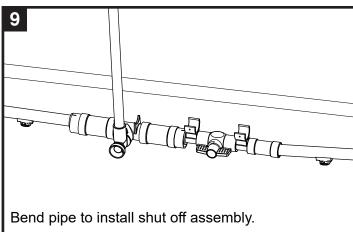
SHUT-OFF ASSEMBLY + INLINE RISER ASSEMBLY: ACE SYSTEM

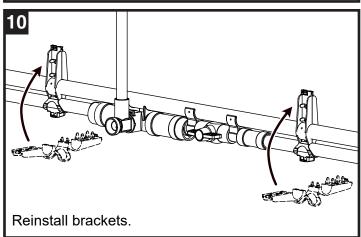


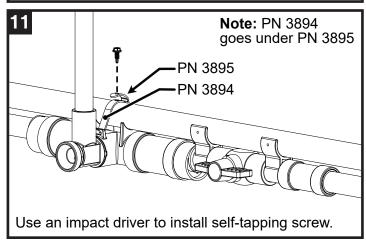


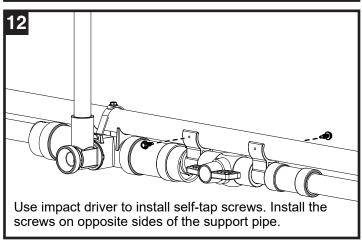




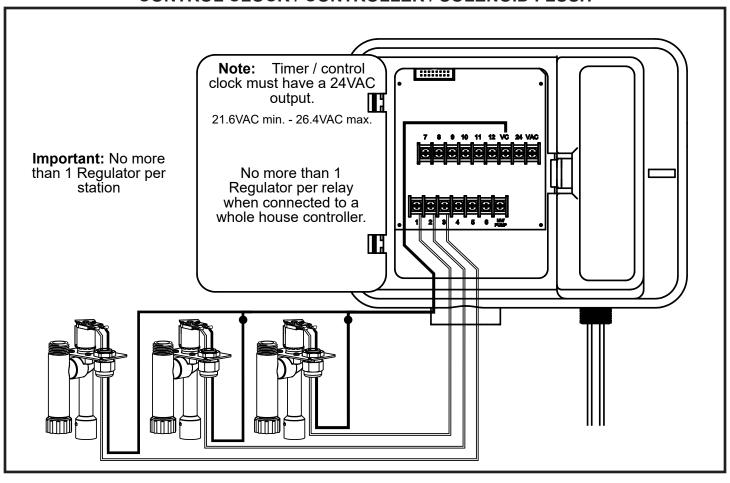


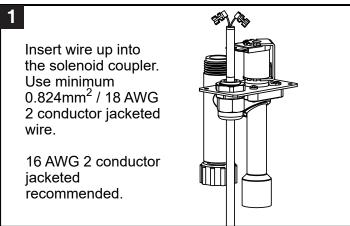


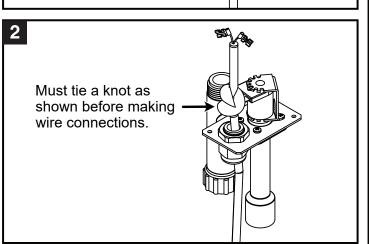


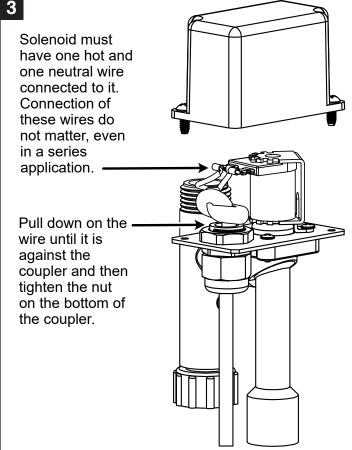


CONTROL CLOCK / CONTROLLER / SOLENOID FLUSH



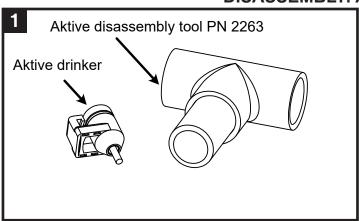


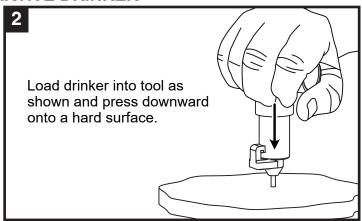


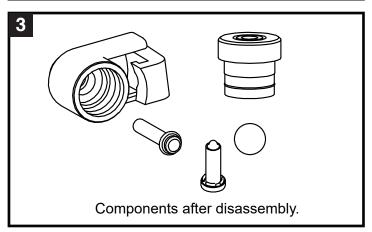




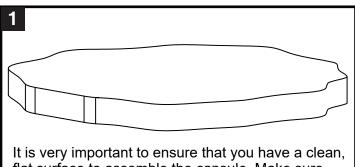
DISASSEMBLY: AKTIVE DRINKER



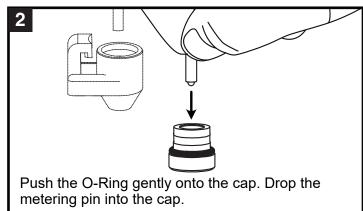


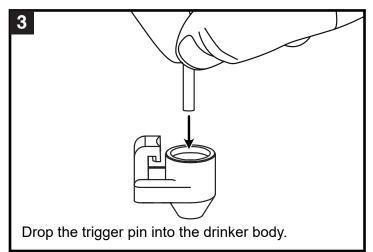


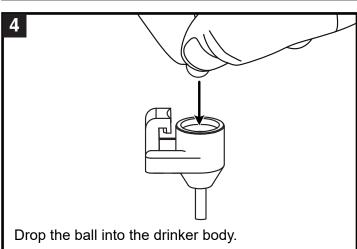
ASSEMBLY: AKTIVE DRINKER



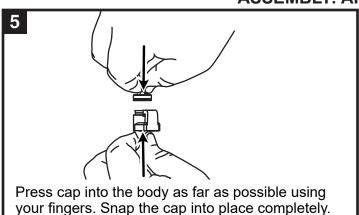
It is very important to ensure that you have a clean flat surface to assemble the capsule. Make sure that the surface is clear of ALL debris during the entire process.

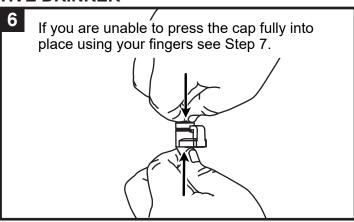


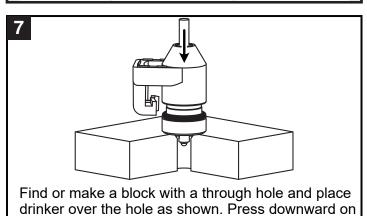




ASSEMBLY: AKTIVE DRINKER





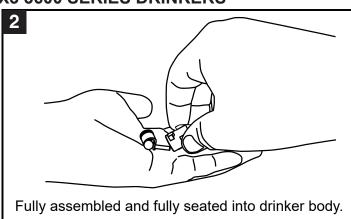


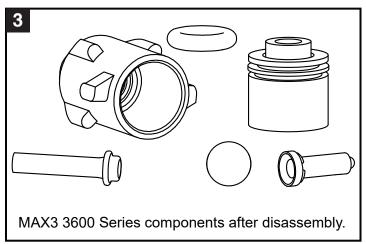
the body until the cap clicks into place.

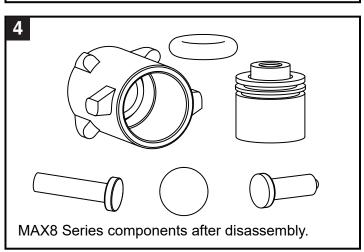


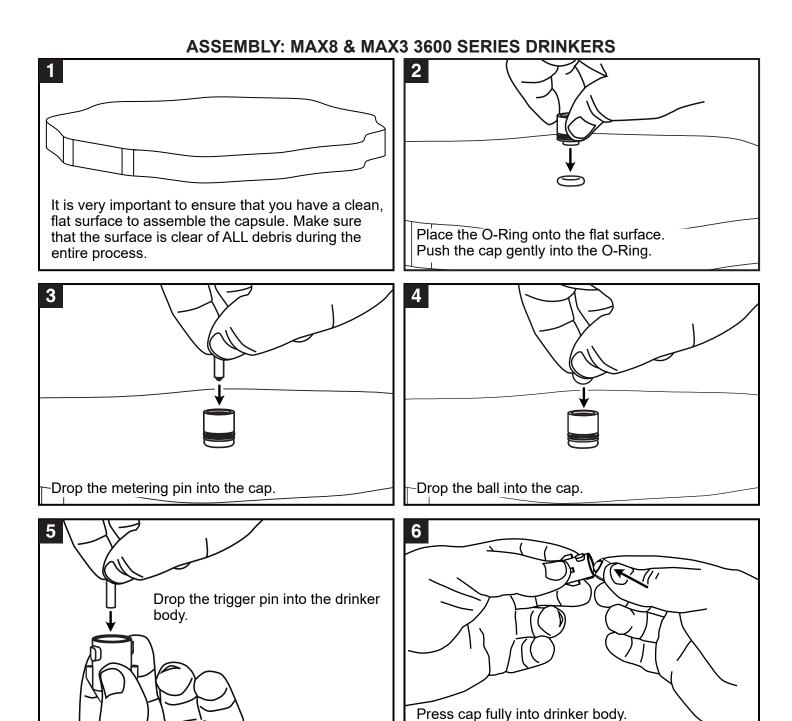
DISASSEMBLY: MAX8 & MAX3 3600 SERIES DRINKERS



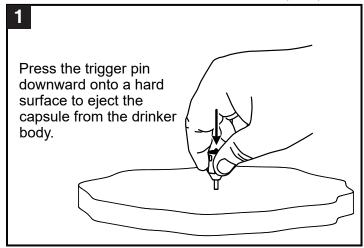


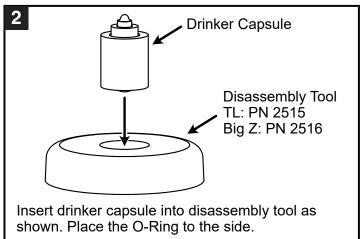


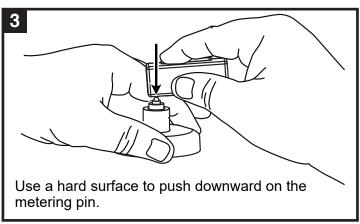


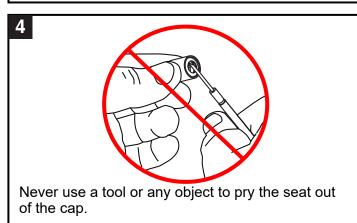


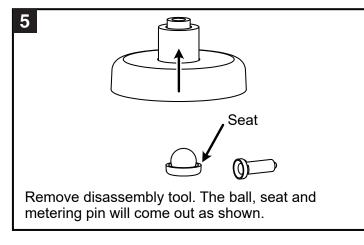
DISASSEMBLY: BIG Z, TL, & ALL NON 3600 SERIES DRINKERS

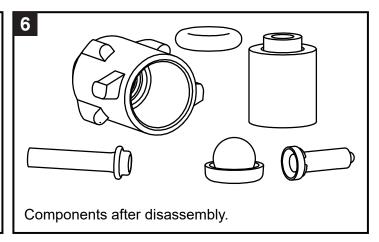




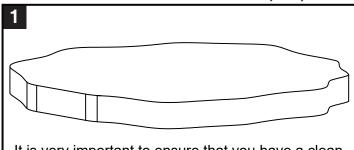




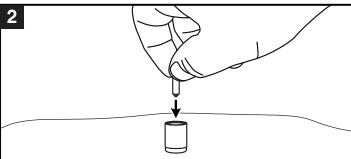




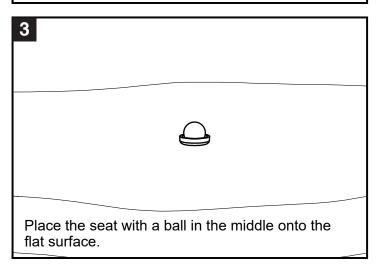
ASSEMBLY: BIG Z, TL, & ALL NON 3600 SERIES DRINKERS

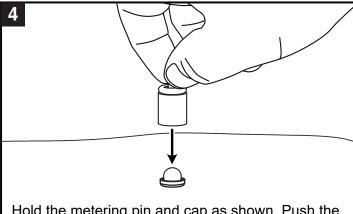


It is very important to ensure that you have a clean, flat surface to assemble the capsule. Make sure that the surface is clear of ALL debris during the entire process.

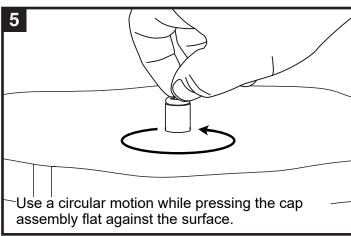


Place O-Ring onto the flat surface. Push the cap gently into the O-Ring. Drop the metering pin into the cap.



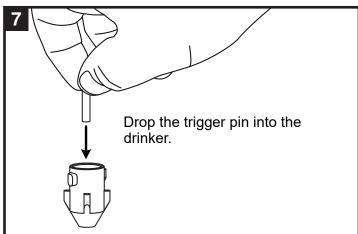


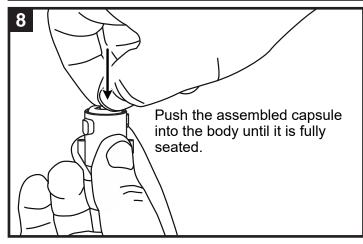
Hold the metering pin and cap as shown. Push the Tassembly onto the ball and seat.





seat into the cap once you have completed Step 5.

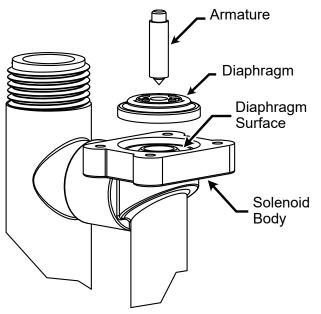




SOLENOID VALVE MAINTENANCE

Components after disassembly.

Armature: Make sure point is facing downward, as shown, when reassembling.

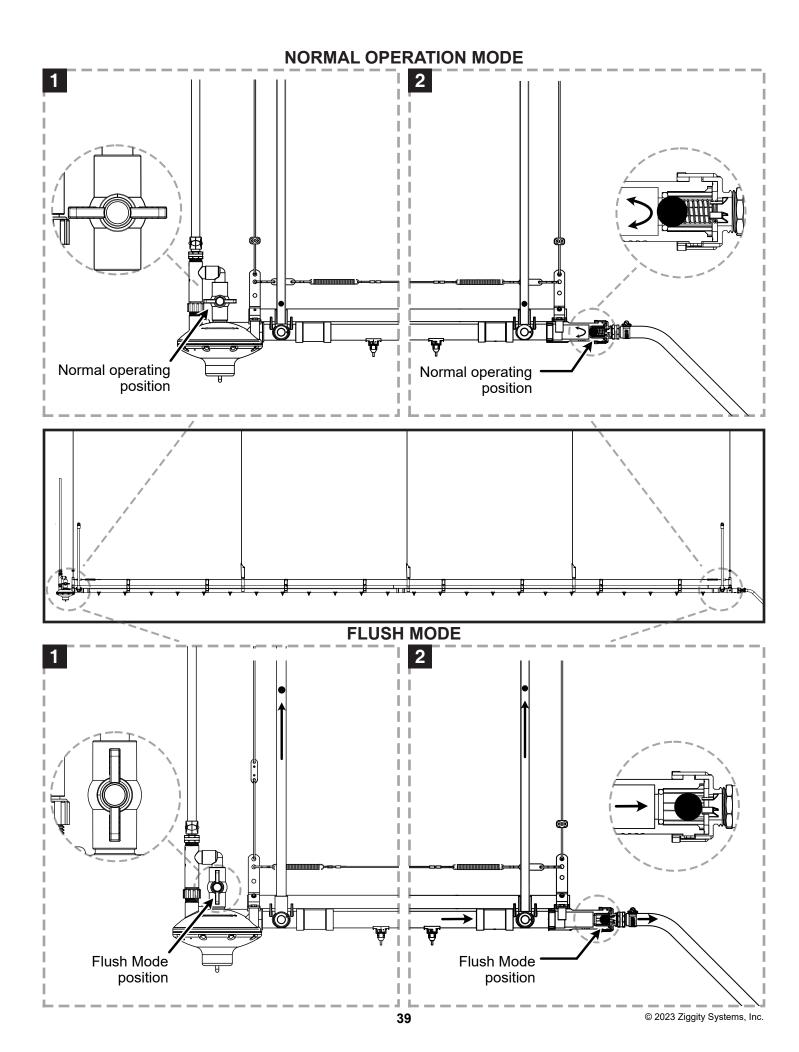


Clean solenoid body (Diaphragm surface), diaphragm and any other parts that appear dirty. Use warm soapy water and a toothbrush. Be careful not to tear the diaphragm.

If the diaphragm holes are plugged, use a needle to push debris out. Be careful not to tear the diaphragm.

Gently move the needle in a circular motion to further remove debris. Be careful not to tear the diaphragm. Reassemble solenoid valve in the reverse order as shown in the first step.





KEY FOR TERMS & NOMENCLATURE REGULATOR ASSEMBLY

CLASSIC = REGULATOR ASSEMBLY TOP WITH RISER

NUVO = REGULATOR ASSEMBLY TOP WITHOUT RISER

FLUSH = MANUAL FLUSH FEATURE

AUTO FLUSH = SOLENOID FLUSH FEATURE

NAV = NORTH AMERICAN VERSION "GHT"

IV = INTERNATIONAL VERSION "3/4" NPSM"

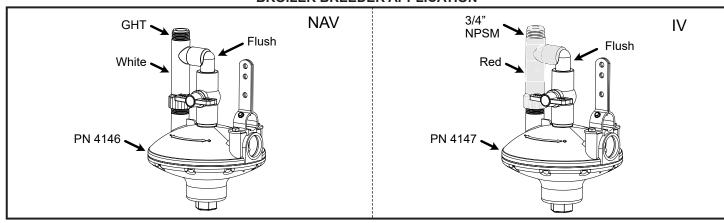
APA = ACE PIPE ADAPTER

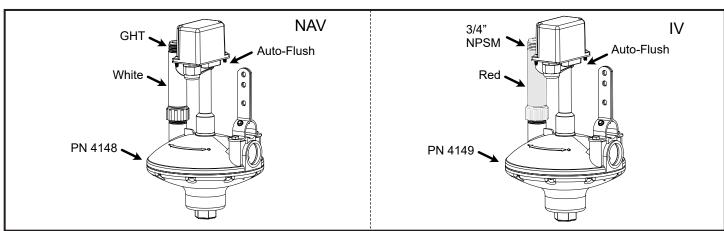
ARF = ADJUSTMENT RESISTANCE FEATURE

LPR = LOW PRESSURE RANGE

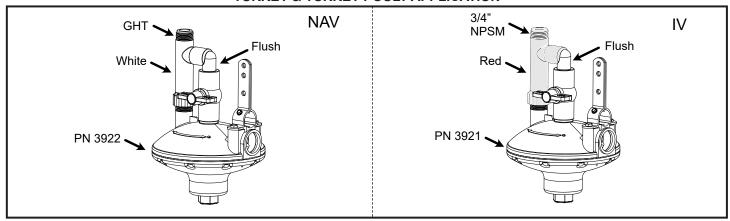
PN = PART NUMBER

BROILER BREEDER APPLICATION

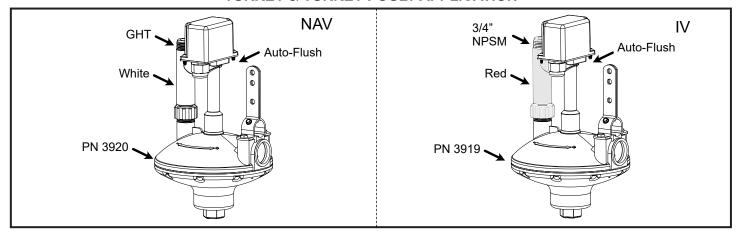




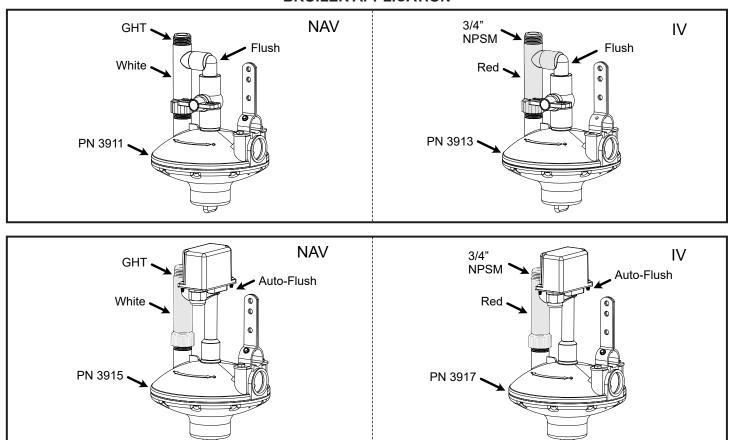
TURKEY & TURKEY POULT APPLICATION



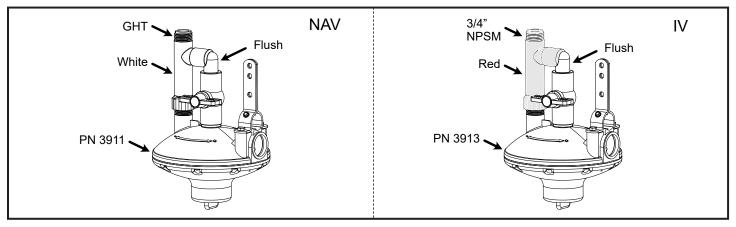
TURKEY & TURKEY POULT APPLICATION

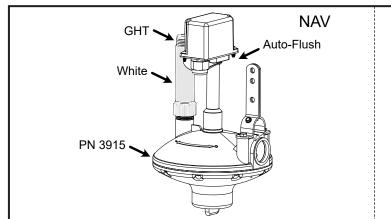


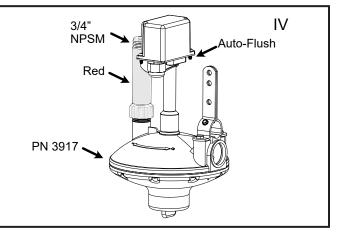
BROILER APPLICATION



ALL OTHER BIRD APPLICATIONS







KEY FOR TERMS & NOMENCLATURE

FLUSH END ASSEMBLY

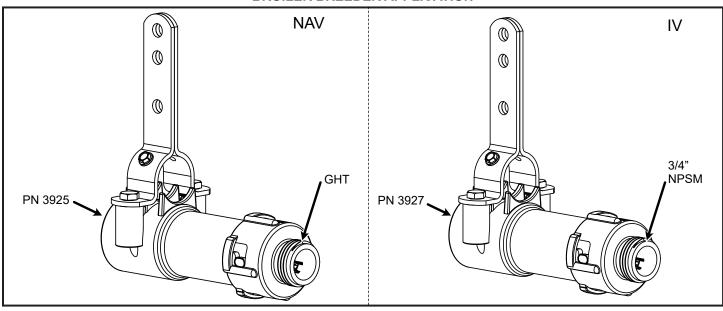
CLASSIC = END ASSEMBLY TOP WITH RISER NUVO = END ASSEMBLY TOP WITHOUT RISER

FLUSH = MANUAL FLUSH FEATURE

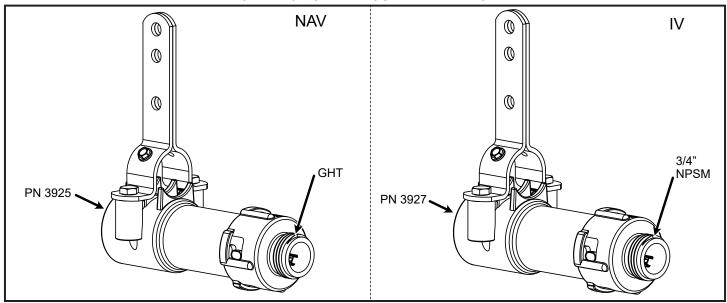
AUTO FLUSH = SOLENOID FLUSH FEATURE
NAV = NORTH AMERICAN VERSION "GHT"
IV = INTERNATIONAL VERSION "3/4" NPSM"

APA = ACE PIPE ADAPTER
PN = PART NUMBER

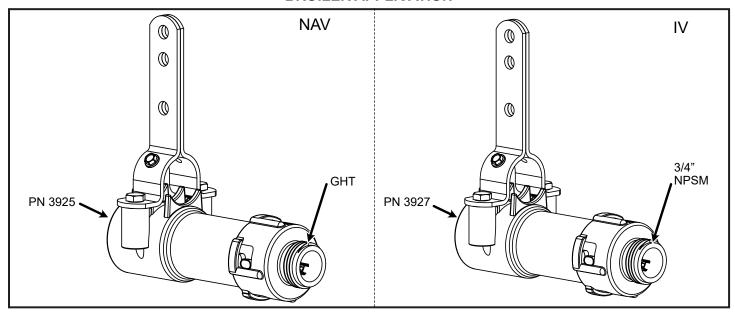
BROILER BREEDER APPLICATION



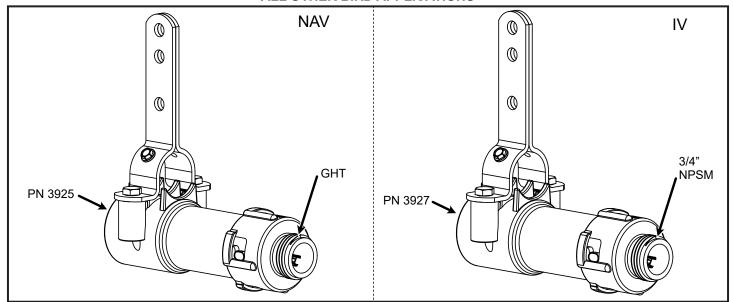
TURKEY & TURKEY POULT APPLICATION



BROILER APPLICATION



ALL OTHER BIRD APPLICATIONS



KEY FOR TERMS & NOMENCLATURE RISER ASSEMBLY

NUVO = RISER ASSEMBLY INLINE & ENDLINE

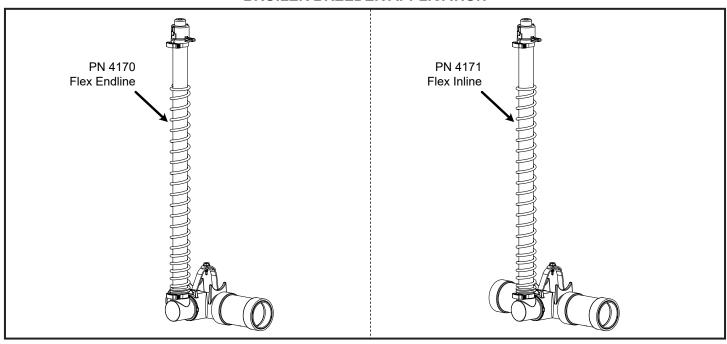
RIGID = RIGID RISER TUBE

FLEX = FLEXIBLE RISER TUBE

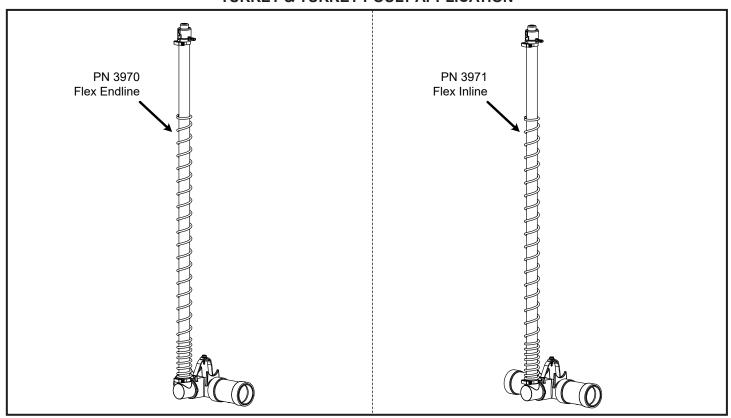
APA = ACE PIPE ADAPTER

PN = PART NUMBER

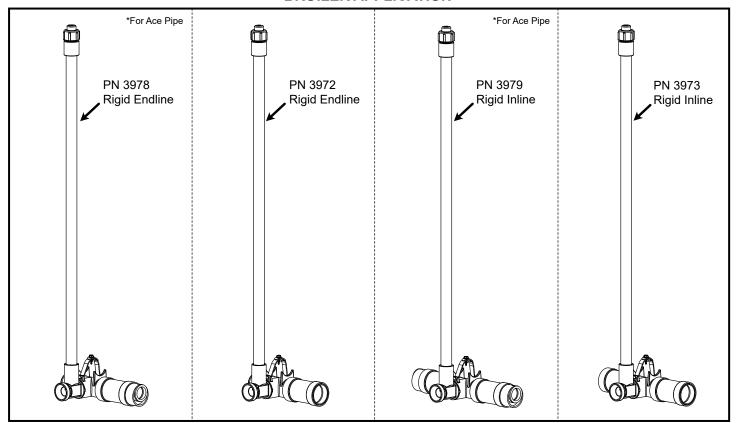
BROILER BREEDER APPLICATION



TURKEY & TURKEY POULT APPLICATION



BROILER APPLICATION



ALL OTHER BIRD APPLICATIONS

